

CLAIMS

1. A motor module stored in a housing (100), comprising:

a motor winding (116) having at its tip a terminal (117, 118) formed to extend in

5 a prescribed direction; and

a terminal block (120) provided integrally with said housing, and for electrically connecting said motor winding to an external wiring (150) for supplying electric power to said motor module,

said terminal block including

10 a first contact (124) for electrically connecting an internal conductor (125) and said external wiring, and

a second contact (130) for electrically connecting said internal conductor and said motor winding; wherein

15 said second contact has a structure (135, 160) that is elastically deformable in accordance with a position of said terminal of said motor winding.

2. The motor module according to claim 1, wherein

said second contact (130) includes

20 a fixed terminal (135) having a portion formed to extend along an extending direction of said terminal (117) of said motor winding, said portion being electrically connected to said internal conductor (125), and

a movable terminal (137) arranged so as to hold said terminal of said motor winding between said fixed terminal, and wherein

25 said movable terminal is elastically deformable in accordance with the position of said terminal of said motor winding.

3. The motor module according to claim 1, wherein

said terminal (118) of said motor winding has a rod-like shape,

5 said second contact (130) has a plurality of movable terminals (160) arranged to form an opening smaller than a cross-sectional area of said terminal of said motor winding before said terminal is inserted, each of said plurality of movable terminals being elastically movable,

10 after being inserted into said opening, said terminal of said motor winding is held closely with said plurality of movable terminals by pressing force of said plurality of movable terminals having been elastically moved, and

15 said plurality of movable terminals are electrically connected to said internal conductor (125).

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4. The motor module according to one of claims 1-3, wherein
25 said first contact (124) has a structure (108) for mating said internal conductor (125) and said external wiring (150) in a direction perpendicular to a motor rotation shaft direction, and

30 said motor winding (116) is attached to said second contact (130) in said rotation shaft direction.

35 5. A motor module stored in a housing (100), comprising:
40 a motor winding (116) having at its tip a plate-like terminal (117) extending in a prescribed direction; and

45 a terminal block (120) provided integrally with said housing, and for electrically connecting said motor winding to an external wiring (150) for supplying electric power to said motor module,

50 said terminal block including
55 a first contact (124) for electrically connecting an internal conductor (125) and said external wiring, and

60 a second contact (130) for electrically connecting said internal conductor and said motor winding; wherein

5 said first contact has a structure for mating said internal conductor and said external wiring in a direction perpendicular to a motor rotational shaft direction,

10 said motor winding is attached to said second contact in said rotation shaft direction, and wherein

15 said second contact includes

20 a plate-like fixed terminal (132) formed to extend along an extending direction of said terminal of said motor winding, and electrically connected to said internal conductor, and

25 a fixing member (170) for fastening said terminal at the tip of said motor winding and said fixed terminal.

30 6. The motor module according to claim 5, wherein

35 said fixing member (170) is configured with a set of a bolt and a nut, and an opening (180) that is laterally longer than a diameter of said bolt is provided to each of said terminal (117) at the tip of said motor winding and said fixed terminal (132).